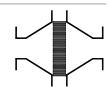
## Type sheet

Bi-directional in-line deflagration flame arrester, short-time burning proof

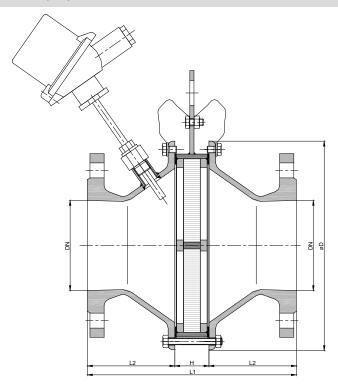
KITO<sup>®</sup> INE-I-.../...-1.5 KITO<sup>®</sup> INE-I-.../...-1.5-T (-TT)



#### **Application**

For installation into pipes to the protection of vessels and components against deflagration of flammable liquids and gases. Approved for all substances of explosion group IIA1 (old: I) with a maximum experimental safe gap (MESG) ≥ 1.14 mm. Bi-directionally working in pipes, whereby an operating pressure of 1.5 bar abs. and an operating temperature of 60 °C must not be exceeded. The distance between a potential ignition source and the flame arrester must not exceed 50 times the inner pipe diameter. An installation into horizontal and vertical pipes is permissible. To detect a thermal load on the KITO® flame arrester element in operation, a temperature sensor can be implemented as an option into the flame arrester body. Proof against "stabilized burning" and withstand this up to a max. burn time BT = 1.0 min.

### Dimension (mm)





NG	DN		D	L1	н	L2	ka
	DIN	ASME	U	L1	п	LZ	kg
150	65 PN 16	-	210	239	39	100	19
	80 PN 16	3"					
200	100 PN 16	4"	268	249	39	105	27
250	125 PN 16	-	322	279	39	120	36
300	150 PN 16	6"	370	305	45	130	50
	200 PN 10	8"					
400	250 PN 10	10"	480	345	- 45	150	
	300 PN 10	12"		323		139	

Weight refers to the variant I

#### Example for order

KITO® INE-I-150/80-1.5-T

(Design NG 150 with flange connection DN 80 PN 16 and a temperature sensor)

Type examination certificate to EN ISO 16852 and CE-marking in accordance to ATEX-Directive 2014/34/EU

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CMC TECHNOLOGIES

Unit 19, 77 Bourke Road, Alexandria, NSW, 2015

AUSTRALIA

05-2018

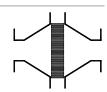
Design subject to change

Date:



# Type sheet

Bi-directional in-line deflagration flame arrester, short-time burning proof KITO<sup>®</sup> INE-I-.../...-1.5 KITO<sup>®</sup> INE-I-.../...-1.5-T (-TT)



#### Design

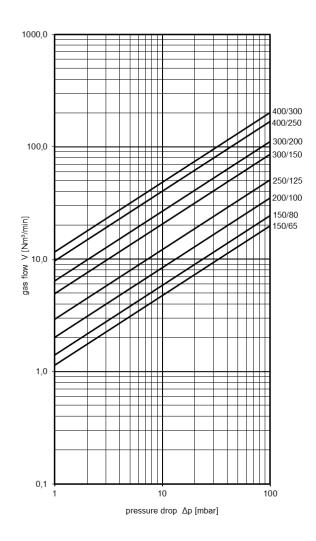
	variant I	variant II	variant III		
housing	cast steel 1.0619	cast steel 1.0619	stainless cast steel 1.4408		
gasket	HD 3822	PTFE	PTFE		
KITO®-flame arrester element	completely interchangeable				
KITO®-casing	steel	stainless steel mat. no. 1.4571	stainless steel mat. no. 1.4571		
KITO <sup>®</sup> -grid	stainless steel mat. no. 1.4310	stainless steel mat. no. 1.4571	stainless steel mat. no. 1.4571		
bolts / nuts	galvanized steel	galvanized steel	A4		
temperature sensor	PT 100 (option), connection 3/8", 1.4571				
flange connection	EN 1092-1 type B1 optionally ASME B16.5 Class 150 RF				

#### Performance curves

Flow capacity V based on air of a density  $p = 1.29 \text{ kg/m}^3$  at T = 273 K and atmospheric pressure p = 1.013 mbar. For other gases the flow can be approximately calculated by

$$\dot{\mathbf{V}} = \dot{\mathbf{V}}_{b} \cdot \sqrt{\frac{\rho_{b}}{1.29}} \ or \qquad \dot{\mathbf{V}}_{b} = \dot{\mathbf{V}} \cdot \sqrt{\frac{1.29}{\rho_{b}}}$$

$$\dot{V}_b = \dot{V} \cdot \sqrt{\frac{1.29}{\rho_b}}$$



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Design subject to change